

CLAIMS

1. A toner comprising at least a pigment and a binder resin,

wherein a filtrate obtained by filtering a dispersion comprising 0.2 g of said toner dispersed in 100 ml of tetrahydrofuran through a filter with a pore size of 0.45 μ m, when it is measured by a spectrophotometer, has:

a maximum absorption between 380 nm and 440 nm wherein the absorbance at the maximum absorption is 1 or higher;

a maximum absorption between 640 nm and 680 nm wherein the absorbance at the maximum absorption is 0.2 or higher; or

a maximum absorption between 490 nm and 560 nm wherein the absorbance at the maximum absorption is 0.15 or higher.

2. The toner according to claim 1, wherein said filtrate preferably has a ratio $A/(A+B)$ of 0.1 or more for the peak detected at a wavelength of 410 nm or 540 nm by a UV detector, wherein A denotes the area of a region where the molecular weight exceeds 2,000 and B denotes the area of a region where the molecular weight is from 500 to 2,000, when measured by gel permeation chromatography.

3. The toner according to claim 1, wherein said filtrate has a basicity of 10 mmol/g or less.

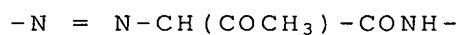
4. The toner according to claim 1, further comprising a charge control resin.

5 5. The toner according to claim 1, wherein the charge control resin has a weight average molecular weight in the range from 2,000 to 50,000.

6. The toner according to claim 1, further comprising
10 a parting agent.

7. The toner according to claim 1, wherein said parting agent is a multifunctional ester compound.

15 8. The toner according to claim 1, wherein said pigment has the following structure:



in the molecular structure thereof.

20 9. The toner according to claim 1, wherein said pigment is a phthalocyanine pigment.

10. The toner according to claim 1, wherein the toner has a volume average particle diameter (Dv) in the range
25 from 3 to 10 μ m, the ratio (Dv/Dp) of the volume average particle diameter (Dv) to the number average particle

diameter (D_p) in the range from 1 to 1.3, and the ratio (r_l/r_s) of the length (r_l) to the breadth (r_s) in the range from 1 to 1.2.

5 11. The toner according to claim 1, wherein the toner has a tetrahydrofuran-insoluble content in the range from 0 to 80% by weight.

12. The toner according to claim 1, wherein the aqueous
10 extract solution thereof has a pH in the range from 4 to 7.

13. The toner according to claim 1, wherein the number of particles of said pigment having the length of at least
15 0.2 μm , counted in an area of 100 μm x 100 μm of the toner having a thickness of 20 μm , which is prepared by melting the toner at a temperature of 170°C, is 50 or less.

14. A method for producing a toner comprising a step
20 of polymerizing, in an aqueous dispersion medium, a polymerizable monomer composition comprising a polymerizable monomer and a pigment, characterized in that said polymerizable monomer composition comprises an epoxy compound or an acid halide having radical
25 polymerizability.

15. The method for producing the toner according to claim 14, wherein the content of said epoxy compound or said acid halide is in the range from 0.1 to 5 parts by weight per 100 parts by weight of said polymerizable monomer.

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16. The method for producing the toner according to claim 14, wherein said polymerizable monomer composition further comprises a charge control resin.

10 17. The method for producing the toner according to claim 14, wherein the charge control resin has a weight average molecular weight in the range from 2,000 to 50,000.